

**Flood Control Project Maintenance
Levee Inspections**

Fall 2011 Levee Maintenance Deficiency Summary Report

Overall LMA & Unit Ratings, including USACE Erosion Survey

Sacramento River Basin

RD1660	Overall LMA Rating	Total LMA Miles				
Reclamation District No. 1660 Tisdale	A	12.14				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Encroachments	0.01		0.01	0.08%	0.65	
Animal Control	0.13		0.13	1.07%		
Slope Stability	0.05		0.05	0.41%		
<i>Supplemental</i>						
USACE Erosion Survey	0.01		0.01	0.08%		
<i>LMA Totals:</i>	0.20	0.00	0.20	1.65%	0.65	0.00

Unit No. 01 Sacramento River LB	Overall Unit Rating	Total Unit Miles				
RD1660	A	3.00				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Encroachments	0.01		0.01	0.33%	0.65	
Animal Control	0.03		0.03	1.00%		
Slope Stability	0.05		0.05	1.67%		
<i>Supplemental</i>						
USACE Erosion Survey	0.01		0.01	0.33%		
<i>Unit Totals:</i>	0.10	0.00	0.10	3.33%	0.65	0.00

Unit No. 02 Sutter Bypass RB	Overall Unit Rating	Total Unit Miles				
RD1660	A	9.14				
Rated Item	M Miles	U Miles	M + 4U Miles	Threshold %	Encroachments	
					PO Miles	CO Miles
<i>Earthen Levee</i>						
Animal Control	0.10		0.10	1.09%		
<i>Unit Totals:</i>	0.10	0.00	0.10	1.09%	0.00	0.00

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Fall 2011 Levee Inspection Results

Reclamation District No. 1660 Tisdale

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)			A	

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Reclamation District No. 1660 Tisdale

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Left	3.00
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/5/2011 - 4/5/2011		10/18/2011 - 10/18/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Ron Long		Ron Long	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 1660 Tisdale

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector	
Unit No. 01 Sacramento River						Left	3.00	10/18/2011 10/18/2011	Bob Duffey	
LMR No.	Levee Mile		Category	Item	Location *	Rating **	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.08	0.10	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.062208 ° -121.837889 °	39.061823 ° -121.837927 °	8 Y
2	0.26	0.26	Earthen Levee	Seepage / Sandboils	LS	C		39.059633 ° -121.838240 °	39.059633 ° -121.838240 °	6
3	1.11	1.11	Earthen Levee	Seepage / Sandboils	LS	C		39.047633 ° -121.839023 °	39.047633 ° -121.839023 °	7
4	1.12	1.43	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.047610 ° -121.838802 °	39.043622 ° -121.836445 °	9 Y
5	1.26	1.26	Supplemental	USACE Erosion Survey	WS	M	Inspector Comments: 2009 - Erosion on levee toe where an old cobble site is failing. 2011: Some new minor erosion. [2011 Site ID: SAC_120-6_L]	39.044256 ° -121.837578 °	39.044330 ° -121.837626 °	11 Y
6	2.04	2.38	Earthen Levee	Encroachments	LS	PO	Agricultural Ditch	39.037640 ° -121.828421 °	39.034416 ° -121.825698 °	1 Y
7	2.42	2.42	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	39.034107 ° -121.825152 °	39.034107 ° -121.825152 °	2
8	2.44	2.44	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	39.033858 ° -121.824985 °	39.033858 ° -121.824985 °	4
9	2.62	2.62	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.031520 ° -121.823420 °	39.031520 ° -121.823420 °	10 Y
10	2.63	2.63	Earthen Levee	Encroachments	LS	M	Equipment	39.031405 ° -121.823403 °	39.031405 ° -121.823403 °	3 Y
11	2.68	2.71	Earthen Levee	Slope Stability	LS	M	Repair slope instability.	39.030891 ° -121.822956 °	39.030436 ° -121.822617 °	5

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	10/18/2011 10/18/2011	Bob Duffey

Levee Mile Report Line	1
Start Levee Mile	0.08
End Levee Mile	0.10
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of squirrel holes along the slope.

rduffey_f_20110927_533.jpg



Levee Mile Report Line	4
Start Levee Mile	1.12
End Levee Mile	1.43
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the AG ditch along the L/S toe.

rduffey_f_20110927_534.jpg



Levee Mile Report Line	5
Start Levee Mile	1.26
End Levee Mile	1.26
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

USACE2011_SAC_120-6_L_1.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Left	3.00	10/18/2011 10/18/2011	Bob Duffey

Levee Mile Report Line	6
Start Levee Mile	2.04
End Levee Mile	2.38
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of the large ditch along the landside toe.

rduffey_f_20110927_529.jpg



Levee Mile Report Line	9
Start Levee Mile	2.62
End Levee Mile	2.62
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of rodent holes along the L/S slope.

rduffey_f_20111128_537.jpg



Levee Mile Report Line	10
Start Levee Mile	2.63
End Levee Mile	2.63
Location	Land Side
Category	Earthen Levee
Item	Encroachments

View of equipment along the slope.

rduffey_f_20110927_530.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Fall 2011 Levee Inspection Results

Reclamation District No. 1660 Tisdale

Waterway			Bank	Unit Miles
Unit No. 02 Sutter Bypass			Right	9.14
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)			A	
Date of Inspection	4/5/2011 - 4/5/2011		10/18/2011 - 10/18/2011	
DWR Inspector	Bob Duffey		Bob Duffey	
Accompanied By	Ron Long		Ron Long	

Check one:

- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. We have found no changes in flood project conditions other than the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the enclosed report.
- ☐ During the current winter (or summer) inspection period, my staff or I have inspected the levee and associated flood project components identified in the attached Levee Inspection Report by Mile. In addition to the results of our normal maintenance and the corrections we have made to maintenance deficiencies identified in the report, we have found the following changes in flood project conditions.

(In the comment section below or on additional sheet(s), identify change of condition by: Start to End Levee Mile or GPS coordinates, location (Land Side, Water Side, or Crown), Item identification, and description of the current condition).

Comments

One of the boxes above is to be checked by the Local Maintaining Agency (LMA). If the second box is checked, additional information must also be submitted. This Unit Cover Sheet should be signed and dated by the LMA Representative and returned to DWR with any additional sheets by September 30 (Summer Inspection) or March 31 (Winter Inspection). Please retain a copy for your records. Please mail all of this information to :

DWR Summer/Winter Inspection Reports
3310 El Camino Avenue, Suite 200
Sacramento, CA 95821-9000

X

Signature of LMA Representative

Date

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 1660 Tisdale

Waterway						Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass						Right	9.14	10/18/2011 10/18/2011	Bob Duffey

LMR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment	GPS Latitude/Longitude		Issue No. Photo
	Start	End						Start	End	
1	0.06	0.44	Earthen Levee	Trim / Thin Trees	WS	C	Thin trees to allow visibility of the ground and room to flood fight.	39.033822 ° -121.743805 °	39.039061 ° -121.745971 °	2
2	0.93	0.97	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.045810 ° -121.748792 °	39.046332 ° -121.749000 °	3 Y
3	1.57	1.61	Earthen Levee	Animal Control	LS	M	Exterminate rodents and backfill and compact or grout burrows.	39.054595 ° -121.752460 °	39.055170 ° -121.752698 °	4 Y
4	2.48	2.48	Earthen Levee	Animal Control	LS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.067027 ° -121.757622 °	39.067027 ° -121.757622 °	5
5	5.07	5.07	Earthen Levee	Animal Control	WS	M	No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.	39.102052 ° -121.774477 °	39.102052 ° -121.774477 °	6 Y
6	8.47	8.47	Earthen Levee	Seepage / Sandboils	LS	C		39.131627 ° -121.824573 °	39.131627 ° -121.824573 °	1

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable PO : Partially Obstructing N : Not Inspected, see Inspector Comment C : Corrected
M : Minimally Acceptable CO : Completely Obstructing
U : Unacceptable W : Watch/Monitor

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Fall 2011

Reclamation District No. 1660 Tisdale

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sutter Bypass	Right	9.14	10/18/2011 10/18/2011	Bob Duffey

Levee Mile Report Line	2
Start Levee Mile	0.93
End Levee Mile	0.97
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of rodent holes along the L/S slope.

rduffey_f_20111128_530.jpg



Levee Mile Report Line	3
Start Levee Mile	1.57
End Levee Mile	1.61
Location	Land Side
Category	Earthen Levee
Item	Animal Control

View of rodent holes along the L/S slope.

rduffey_f_20111128_531.jpg



Levee Mile Report Line	5
Start Levee Mile	5.07
End Levee Mile	5.07
Location	Water Side
Category	Earthen Levee
Item	Animal Control

View of the rodent holes along the W/S slope.

rduffey_f_20111128_532.jpg



*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

PO : Partially Obstructing
CO : Completely Obstructing
W : Watch/Monitor

N : Not Inspected, see Inspector Comment C : Corrected